I-10

CYCLIC TIMER From 0,3 sec. to 1 min

The I-10 is a 12 V. D.C. cyclic timer with relay output. The module will maintain activated the output according to an operating time and a quiescent time fluctuating between 0,3 second and 1 minute.
The operating-quiescent cycle will be activated until you stop to supply the module.
It includes protection against polarity inversions, led to indicate timer operating, connector to withdraw the potentiometer at the exterior and connectio terminals.
Do not forget to read all the information sheet in order to obtain a perfect operating of the module.

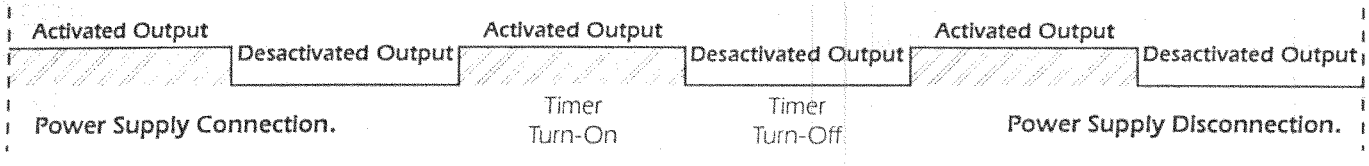
TECHNICAL CHARACTERISTICS.

Voltage	12 V. D.C.
Minimum Consumption	20 mA.
Maximum Consumption	80 mA.
Minimum Time	0'3 Sec.
Maximum Time	1 Min.
Maximum Output Load By Relay	5 A.
Led To Indicate The Operating	Yes.
Sizes	76 x 44 x 30 mm.

OPERATING.

POWER SUPPLY. The I-10 circuit had to be supplied by a 12 VDC power supply.
Then, we recommended you the FE-2 power supply which has been developped to perfectly answer to the circuit needs. Connect the positive of the power supply to the positive terminal indicated in the wiring map, then connect also the negative of the power supply to the negative terminal indicated in the circuit. **Verify** that the assembly has been correctly done.

OPERATING. QUIESCENT CYCLE. The circuit have two times. Operating time (when the relay will be connected) and quiescent time (when the relay will not be connected between two operating time).
To select operating and quiescent times you had to adjust potentiometers inserted in the P.C.B.
When the time is selected, press the push button to supply the module. The circuit I-10 will automatically connect the output during the previously indicated operating time and the led will light. When the operating time will be finished, led and output will be disconnected during the selected quiescent time. At the end of this quiescent time, the module I-10 will be activated once again.



EXTERIOR INSTALLATION OF THE POTENTIOMETER. If you wish to substituate potentiometers inserted in the P.C.B, you had to withdraw the soldering potentiometers. Then, and according to the drawing, connect cables between the element or jumpers indicated as "J1" & "J2" and exterior potentiometers. Potentiometers have to be lineal and offering 1 M.

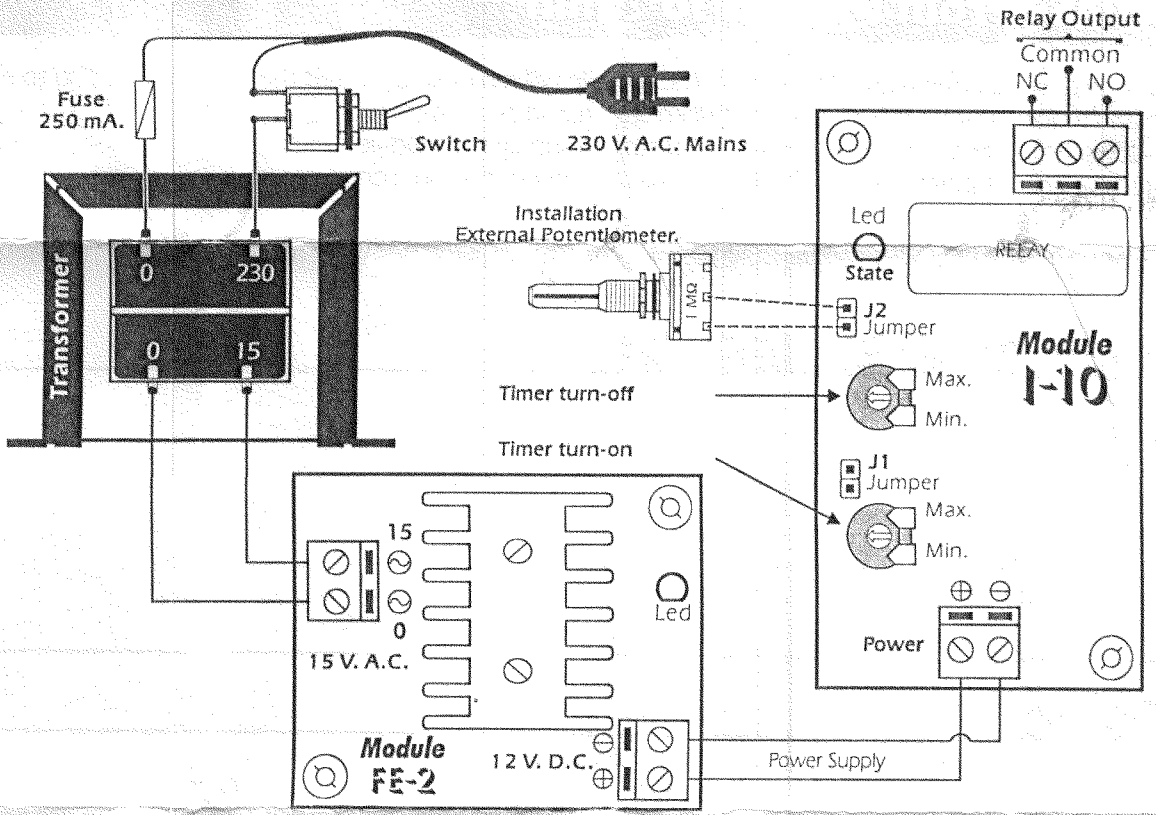
OUTPUT. CONNECTION OF THE LOAD. The output Module (I-10) is controlled by a relay, allowing any load until 5 A. as maximum consumption. The relay has 3 output terminals the normally open at quiescent (NA), the mormally closed at quiescent (NC) and the common. The operating of this mechanism is the same as a switch with two (2) terminals NA and common, if you wish that the output will be activated during the timer, or between the NC and the common to obtain the reverse operating. In the Output connection paragraph, you could apreciate the typical connection for a devices operating at 12 VDC and to operate at 230 VAC. The installation is between the Common and NA, where the device or load that you wish to control will be activated during the operating time. To obtain the inverse operating, substitute in the connection the NA by the NC.

TIMERS.

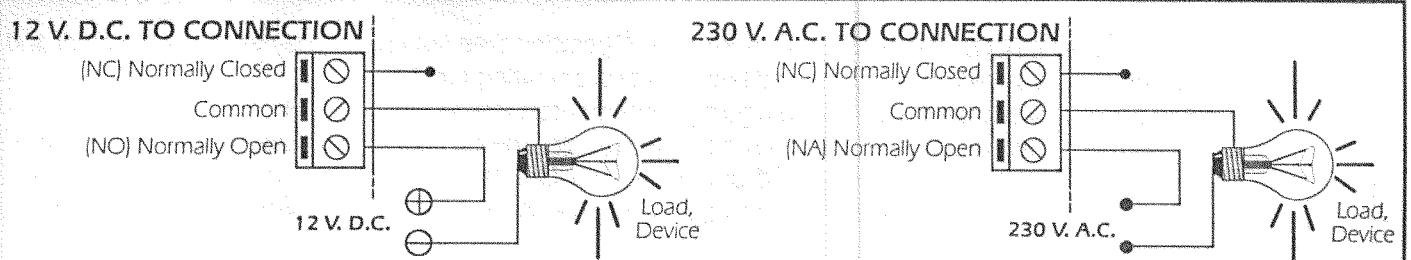
Ref. Full9910_Ang.

I-10

GENERAL WIRING MAP.



LOAD. OUTPUT CONNECTION.



CONSIDERATION TO THE OUTPUT. LOAD. During to the operating the module according to be charge, you can happen the fluctuation or incorrect output functionament.

This is wrong you have install the anti-spark (resistor & capacitor), between two contacts of the relay make's in the connection such as is to apper in the drawing.